This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ LINES OR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/961,379	09/25/2001	Anand Srinivasan	P 282961 13530RO	5477
	590 09/08/2004	EXAMINER		INER
PILLSBURY WINTHROP, LLP P.O. BOX 10500			BADERMAN, SCOTT T	
MCLEAN, VA			ART UNIT	PAPER NUMBER
			2113	
			DATE MAILED: 09/08/2004	ļ

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/961,379	SRINIVASAN ET AL.		
	Office Action Summary	Examiner	Art Unit		
	·	Scott T Baderman	2113		
Period fe	The MAILING DATE of this communication a or Reply	ppears on the cover sheet wi	th the correspondence address		
THE - Exte after - If the - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above its less than thirty (30) days, a replayment of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	 In no event; however, may a reeply within the statutory minimum of thirty of will apply and will expire SIX (6) MON ute, cause the application to become AB. 	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status					
1)	Responsive to communication(s) filed on 25	September 2001			
2a)□		nis action is non-final.			
3)□	Since this application is in condition for allow		ers, prosecution as to the merits is		
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.		
Disposit	ion of Claims				
4) ⊠⁻	Claim(s) 1-47 is/are pending in the application	on.			
	4a) Of the above claim(s) is/are withdr				
	Claim(s) is/are allowed.		•		
6)⊠	Claim(s) 1-9 and 14-47 is/are rejected.				
7)⊠	Claim(s) <u>10-13</u> is/are objected to.				
8)□	Claim(s) are subject to restriction and	or election requirement.			
Applicati	ion Papers				
9)🖂	The specification is objected to by the Examir	ner.			
10)🖂	The drawing(s) filed on 25 September 2001 is	s/are: a)⊠ accepted or b)□	objected to by the Examiner.		
	Applicant may not request that any objection to th				
	Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11)	The oath or declaration is objected to by the I	Examiner. Note the attached	Office Action or form PTO-152.		
Priority ι	ınder 35 U.S.C. § 119		·		
_	Acknowledgment is made of a claim for foreig ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).		
	1. Certified copies of the priority document	nts have been received.			
	2. Certified copies of the priority document	nts have been received in Ap	pplication No		
	3. Copies of the certified copies of the pri		received in this National Stage		
. * 0	application from the International Bure	, , , ,	analy and		
	See the attached detailed Office action for a lis	scorune cerunea copies not r	eceivea.		
			*		
ttachmen	t(s)				
	e of References Cited (PTO-892)		ımmary (PTO-413)		
	e of Draftsperson's Patent Drawing Review (PTO-948)	The state of the s	/Mail Date formal Patent Application (PTO-152)		
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	6) Other:			

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: On page 1, paragraph 2, the serial number for the co-pending U.S. patent application is needed. Appropriate correction is required.

Allowable Subject Matter

2. Claims 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 15-23 and 39-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2113

As in claim 15, lines 2-3, it is not clear to which "said message" refers to with regard to claim 14 (message received from a different server after the sending step or message received from a different server after the master server is detected functional?).

As in claim 16-23, these claims are rejected due to the fact that they depend from claim 15.

As in claim 39, lines 3-4, it is not clear to which "said message" refers to with regard to claim 38 (message received from a different server after the sending step or message received from a different server after the master server is detected functional?).

As in claim 40-45, these claims are rejected due to the fact that they depend from claim 39.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002

Art Unit: 2113

do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1-9, 14, 24-38, 46 and 47 are rejected under 35 U.S.C. 102(e) as being anticipated by Basani et al. (6,748,447).

As in claims 1, 26 and 30, Basani discloses a method for operating a fault tolerant server group in client-server distributed dynamic network systems that comprises receiving, by a master server (group leader) in a fault tolerant server group, a request sent by a client (user), wherein the fault tolerant server group comprises the master server and at least one back-up server (backend server), and wherein the master server communicates with both the client and the at least one back-up server (Figure 1, column 1: line 39 –column 2: line 6, column 5: lines 36-50, column 8: lines 24-40). Basani also discloses wherein each server in the server group, including the master server and the at least one back-up server, have an election mechanism enabling the fault tolerant server group to elect a new master server, when the master server fails (is dead), in a process in which at least some of the election mechanisms are triggered at different times (i.e., a preset time is allocated for responses from other servers which implies that other servers can send LC messages at different times) (column 13: line 58 – column 14: line 42). Basani also discloses processing, by the fault tolerant server group, the request to produce a result, wherein the request is processed concurrently by the master server and the at least one back-up server, and sending,

Art Unit: 2113

by the master server, the result to the client (Figure 1, column 5: lines 36-50, column 8: lines 24-40).

As in claims 2 and 31, Basani discloses determining, by the election mechanism running on the at least one back-up server, whether the master server is functional (column 14: lines 5-42), and electing a new master server for the fault-tolerant server group when the master server fails, wherein the electing being performed based on at least one election periodic timer associated with the at least one back-up server (which sets the preset time period), and wherein the new master assumes the mastership and communicates with the client and other servers in the fault tolerant server group (Figure 1, column 14: lines 5-42).

As in claims 3, 28 and 32, Basani discloses a method for operating an election mechanism that comprises detecting, by at least one back-up server (backend server), when a master server (group leader) is not functional, wherein the master server processes the mastership of a server group, and wherein the server group comprises the master server and the at least one back-up server (Figure 1, column 5: lines 36-50, column 14: lines 5-42). Basani also discloses electing, when the master server is detected not functional, a new master server based on at least one election periodic timer, wherein each of the at least one election periodic timer is associated with a different server in the server group (each server sets a preset time period) and causes the electing to occur at different times (i.e., a preset time is allocated for responses from other servers which implies that other servers can send LC messages at different times) for at least

Art Unit: 2113

some of the servers, wherein the new master server takes over the mastership (Figure 1, column 14: lines 5-42).

As in claims 4 and 33, Basani discloses sending, by each of the back-up server, at least one inquiry (ping) message to the master server (column 21: lines 18-31), examining, by the at least one back-up server, whether a reply, from the master server as a response to the at least one inquiry message, is received within a certain amount of time (column 14: lines 5-42, column 21: lines 18-31), determining that the master server is not functional if the reply is not received from the master server within a certain amount of time (column 14: lines 5-42), and determining that the master server is functional if the reply is received from the master server within the certain amount of time (column 14: lines 5-42).

As in claims 5 and 34, Basani discloses initializing a time-out mechanism after the sending, wherein the time-out mechanism includes a time-out condition that defines the certain amount of time, and wherein the time-out mechanism starts to count time towards the time-out condition after the initializing (column 14: lines 5-42).

As in claims 6, 29 and 35, Basani discloses wherein the electing comprises selecting one of the at least one back-up server as the new master server, wherein the selecting is carried out based on the at least one election periodic timer and updating said mastership based on said new master server (column 14: lines 5-42).

Art Unit: 2113

As in claims 7 and 36, Basani discloses wherein the selecting comprises setting the state of a back-up server, whose master server is detected not functional, to be a waiting state (i.e., the server must wait until the preset time period expires) (column 14: lines 5-42). Basani also discloses initializing an election periodic timer associated with the back-up server, wherein the election periodic timer specifies a particular length of time defined for the back-up server, and declaring, by the back-up server, the back-up server as the new master server, if no message from a different server is received during the particular length of time (column 14: lines 5-42).

As in claims 8 and 37, Basani discloses wherein the declaring comprises setting the state of the back-up server to be master, and sending a first message (leader claim message (LC) (column 14: line 5 – column 15: line 38) to the at least one back-up server and the master server, wherein the first message declaring the back-up server as the new master server.

As in claim 9, Basani discloses wherein the particular length of time (preset time) specified by said election periodic timer is an election delay time associated with the back-up server (column 14: lines 5-42).

As in claims 14 and 38, Basani discloses wherein the declaring further comprises receiving a message from a different server after the sending (i.e., receiving an LC message from another server after the preset time has expired) (column 14: line 5 – column 15: line 38), and the detecting comprises receiving a message from a different server after the master server is

Art Unit: 2113

detected functional (i.e., receiving an LC message from another server before the preset time has expired) (column 14: line 5 – column 15: line 38).

As in claims 24 and 46, Basani discloses triggering the detecting based on a detection periodic timer (column 14: lines 5-42).

As in claims 25 and 47, Basani discloses wherein the detection periodic timer includes an equally periodic timer (column 14: lines 5-42).

As in claim 27, Basani discloses a name server for registering the mastership of the master server (column 4: lines 33-48).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

See Form PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott T Baderman whose telephone number is (703) 305-4644. The examiner can normally be reached on Monday-Friday, 6:45 AM-4:15 PM, first Fridays off.

Art Unit: 2113

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (703) 305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott T Baderman Primary Examiner Art Unit 2113

STB